PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE mond to a collection of information unless it contains a valid OMB control number.

OI,	soci me i aberaore recan	TOTO IL LACO	gen 222, no persons	are required to respond to a contestion of	
Substitute	c for form 1459A/PTO	184	7	Ca	omplete if Known
INTEO	DM A TIONAL	DEN	ACTIDE	Application Number	09/963,920
INFORMATION DISCLOSURE				PLICANT Filing Date First Named Inventor September 26, 2001 Barany et al.	
STAT	STATEMENT BY APPLICANT			First Named Inventor	Barany et al.
	(use as many sheets a	is necessa	(ער)	Art Unit	1639
				Examiner Name	P.Ponnaluri
Sheet	1	of	1	Attorney Docket Number	19603/3356 (CRF D-1595F)

			U.S. PATENT DOCUM	ENTS	
Examiner Initials	Cite No.1	U.S. Patent Document  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PP	1	US-5,700,637	12/23/1997	Southern	<del></del>
Pn	2	US-5,429,807	07/04/1995	Matson et al.	
PN	3	US-5,445,934	08/29/1995	Fodor et al.	>
		US			ζ.

		F0	REIGN PATENT D	OCUMENTS		
Examiner nitials	Cite No.1	Foreign Patent Document  Kind Code <sup>3</sup> Country Code <sup>3</sup> Number <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	14
PP	4	WO 91/17239	11/14/1991	WIPO	<u> </u>	
1	5	WO 93/20227	10/14/1993	WIPO		
	6	WO 96/15271	05/23/1996	WIPO		
	7	WO 92/10558	06/25/1992	WIPO		
	8	WO 93/22680	11/11/1993	WIPO		
	9	WO 93/04199	03/04/1993	WIPO		
ı	10	WO 94/01446	01/20/1994	WIPO		
	11	EP 0 487 104 A1	05/27/1992	Ешгоре		
	12	WO 93/09250	05/13/1993	WIPO		
V	13	WO 95/00533	01/05/1005	WIPO		
<del></del>						
		OTHER PRIOR A	ART – NON PATENT L	ITERATURE DOCUMENTS		
Examiner nitials	Cite No.1		rnal, serial, symposium, o	CS), title of the article (when approparties), title of the article (when approparties), date, page(s), volume outtry where published.		T <sup>2</sup>
PP	14	Abravaya et al., "Detection (Gap-LCR)," Nucleic Acid:			se Chain Reaction	
PA	15	Schena et al., "Quantitative Complementary DNA Mic	Monitoring of G	ene Expression Patterns	with a	

Examiner 0 0 1	Date	10/26/04
Signature P. YONNAMN	Considered	10/26/04

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449A/PTO 09/963,920 Application Number INFORMATION DISCLOSURE September 26, 2001 Filing Date STATEMENT BY APPLICANT Barany et al. First Named Inventor 1639 Art Unit P.Ponnaluri Examiner Name of Attorney Docket Number 19603/3356 (CRF D-1595F)

4	ZE WAST		U.S. PATENT DO	CUMENTS	
Examiner Initials	Citc No.1	U.S. Patent Document  Number - Kind Code <sup>2</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentoe or Applicant of Cited Document	Pages, Cohumns, Lines, Where Relevant Passages or Relevant Figures Appear
00	1	US-4,988,617	01/29/1991	Landegren et al.	
7 7	2	US-5,516,635	02/16/1996	Ekins et al.	
	3	US-5,858,659	01/12/1999	Sapolsky et al.	
	4	US-6,143,495	11/07/2000	Lizardi et al.	
	5	US-6,506,594 B1	01/14/2003	Barany et al.	
	6	US-5,527,681	06/18/1996	Holmes	
	7	US-5,510,270	04/23/1996	Fodor et al.	
	8	US-5,594,121	01/14/1997	Froehler	
3	9	US-5,723,320	03/03/1998	Dehlinger	
		US- \			
		US-			
		US-			
		US-	<u> </u>		
	<u> </u>	US-			
	1	US-			
		US-			·
	ļ	US-			
		US-			
		US-			
		US-		1	\

		FC FC	REIGN PATENT	DOCUMENTS		
Examiner Initials	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Country Code <sup>3</sup> Number <sup>4</sup> (If known)	MM-DD-YYYY		Figures Appear	T*
Pil of	10	WO 92/10566	06/25/1992	WIPO		
O.	11	WO 98/03673 A	01/29/1998	WIPO		
V	12	WO 00/56927 A3	09/28/2000	WIPO	·	
	ļ					
		<u> </u>				
Examiner	_	00		Date	121/120	

Signature | 1 10 126 104 | Considered | 10 126 104 |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

y did and Decent

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at 222 uspto gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449B/PTO 09/963,920 Application Number INTO REMEATION DISCLOSURE September 26, 2001 Filing Date STATEMERY Barany et al. First Named Inventor APR 2 3 2002 1639 Group Art Unit P.Ponnaluri Examiner Name Attorney Docket Number of 19603/3356 (CRF D-1595F)

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.)., date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PP 13		Belgrader et al., "A Multiplex PCR-Ligase Detection Reaction Assay for Human Identity Testing," Genome Science & Tech. 1:77-87 (1996)	
	14	Chee et al., "Accessing Genetic Information with High-Density DNA Arrays," Science 274:610-614 (1996)	
	15	Day et al., "Identification of Non-Amplifying CYP21 Genes When Using PCR-Based Diagnosis of 21-Hydroxylase Deficiency in Congenital Adrenal Hyperplasia (CAH) Affected Pedigrees," <u>Hum. Mol. Genet.</u> 5(12):2039-2048 (1996)	
	16	Drobyshev et al., "Sequence Analysis by Hybridization with Oligonucleotide Microchip: Identification of β-Thalassemia Mutations," <u>Gene</u> 188:45-52 (1997)	
	17	Fodor et al., "Multiplexed Biochemical Assays with Biological Chips," Nature 364:555-556 (1993)	
	18	Gerry et al., "Universal DNA Microarray Method for Multiplex Detection of Low Abundance Point Mutations," J. Mol. Biol. 292:251-262 (1999)	
	19	Hacia et al., "Detection of Heterozygous Mutations in BRCA1 Using High Density Oligonucleotide Arrays and Two-Colour Fluorescence Analysis," Nat. Genet. 14:441-447 (1996)	
	20	Heller et al., "Discovery and Analysis of Inflammatory Disease-Related Genes Using cDNA Microarrays," Proc. Nat'l. Acad. Sci. USA 94:2150-2155 (1997)	
	21	Khanna et al., "Multiplex PCR/LDR for Detection of K-ras Mutations in Primary Colon Tumors," Oncogene 18:27-38 (1999)	
	22	Khrapko et al., "A Method for DNA Sequencing by Hybridization with Oligonucleotide Matrix," J. DNA Seq. Map. 1:375-388 (1991)	
V	23	Kozal et al., "Extensive Polymorphisms Observed in HIV-1 Clade B Protease Gene Using High-Density Oligonucleotide Arrays," Nature Medicine 2:753-759 (1996)	

Examiner Signature	P. Ponnalun'	Date Considered	10/26/04

or did met Dec. il

<sup>\*</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449B/PTO 09/963,920 Application Number INFORMATION DISCLOSURE September 26, 2001 Filing Date STĂTEMEDT BY APPLICANT Barany et al. First Named Inventor (1150 as mars) 1639 Group Art Unit APR 2 3 2004 P.Ponnaluri **Examiner Name** of 4 Attorney Docket Number 19603/3356 (CRF D-1595F)

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Initials No.' in			
		R.J. Lipshutz et al., "Using Oligonucleotide Probe Arrays To Assess Genetic Diversity," <u>Biotechniques</u> 19:442-447 (1995)	
	25	Lysov et al., "DNA Sequencing by Hybridization to Oligonucleotide Matrix.  Calculation of Continuous Stacking Hybridization Efficiency," <u>Journal of Biomolecular Structure &amp; Dynamics</u> 11(4):797-812 (1994)	
	26	Maskos et al., "A Study of Oligonucleotide Reassociation Using Large Arrays of Oligonucleotides Synthesised on a Glass Support," <u>Nucleic Acids Res.</u> 21:4663-4669 (1993)	
	27	Maskos et al., "A Novel Method for the Analysis of Multiple Sequence Variants by Hybridization to Oligonucleotides," <u>Nucleic Acids Res.</u> 21:2267-2268 (1993)	
	28	Nikiforov et al., "Genetic Bit Analysis: A Solid Phase Method for Typing Single Nucleotide Polymorphisms," Nucleic Acids Res. 22(20):4167-4175 (1994)	
	29	Nonradioactive in situ Hybridization Manual from Boehringer Mannheim Biochemicals, page 1, 1992	
	30	Nucleic Acid Hybridization, A Practical Approach, page 6, edited by Hames & Higgins, 1985, Published by IRL Press Limited, P.O. Box 1, Eynsham, Oxford OX 8 1JJ, England.	
	31	Parinov et al., "DNA Sequencing by Hybridization to Microchip Octa- and Decanulcotides Extended by Stacked Pentanucleotides," <u>Nucleic Acids Res.</u> 24:2998-3004 (1996)	
	32	Reed et al., "Chromosome-Specific Microsatellite Sets for Fluorescence-Based, Semi-Automated Genome Mapping," Nature Genetics 7:390-395 (1994)	
	33	Schena et al., "Parallel Human Genome Analysis: Microarray-Based Expression Monitoring of 1000 Genes," Proc. Natl. Acad. Sci. USA 93:10614-10619 (1996)	
V	34	Shalon et al., "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-Color Fluorescent Probe Hybridization," Genome Res. 6:639-645 (1996)	

Examiner Signature	ρ.	Ponnalu	M .	Date Considered	10	126	104	
		•						

& dio not Receive

<sup>\*</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO	Cor	mplete if Known
INFORMATION DISCLOSURE	Application Number	09/963,920
OF A TERMENISMAN ADDITION NOT	Filing Date	September 26, 2001
STATEMENT APPLICANT	First Named Inventor	Barany et al.
APR 2 2004 Res as necessary)	Group Art Unit	1639
B &/	Examiner Name	P.Ponnaluri
Shea 4 of 4	Attorney Docket Number	19603/3356 (CRF D-1595F)

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Cite Initials No. 1						
PP	35	to Arrays of Oligonucleotides: Evaluation using Experimental Models," Genomics 13:1008-1017 (1992)				
	36	Timofeev et al., "Regioselective Immobilization of Short Oligonucleotides to Acrylic Copolymer Gels," Nucleic Acids Res. 24:3142-3148 (1996)				
	37	Tong et al., "Biochemical Properties of a High Fidelity DNA Ligase from Thermus species AK16D," Nucleic Acids Research 27(3):788-794 (1999)				
	38	Van Ness et al., "A Versatile Solid Support System for Oligodeoxynucleotide Probebased Hybridization Assays," <u>Nucleic Acids Res.</u> 19:3345-3350 (1991)				
	39	Weber et al., "Abundant Class of Human DNA Polymorphisms Which Can Be Typed Using the Polymerase Chain Reaction,"				
·	40	Yershov et al., "DNA Analysis and Diagnostics on Oligonucleotide Microchips,"  Proc. Natl. Acad. Sci. USA 93:4913-4918 (1996)				
	41	Zhang et al., "Single-base Mutational Analysis of Cancer and Genetic Diseases Using Membrane Bound Modified Oligonucleotides," <u>Nucleic Acids Res.</u> 19:3929-3933 (1991)				
V	42	Janssen et al., "Evaluation of the DNA Fingerprinting Method AFLP as a New Tool in Bacterial Taxonomy," Microbiology 142:1881-1893 (1996)				
· · · · · · · · · · · · · · · · · · ·						

Examiner Signature	p. Ponnalun'	Date Considered	10/20/04

<sup>\*</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is